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## In the Claims

Please replace all prior versions of claims in the application with the following claims:

1. (Currently amended) Rate Finger sensing apparatus comprising:

two or more <u>object-finger</u> detectors spaced apart along a-an expected direction of movement of an <u>object-a finger</u>, each of said <u>object-finger</u> detectors including at least one <u>rate</u> drive plate and at least one <u>rate-pickup plate</u>, <u>wherein said finger detectors are dimensioned and spaced to sense a bulk of a finger rather than fingerprint features and wherein an end of an <u>object a finger passing</u> over each of said <u>object-finger detectors</u> produces a change in capacitance between respective <u>rate-drive plates</u> and <u>rate-pickup plates</u>.</u>

- 2. (Currently amended) Rate Finger sensing apparatus as defined in claim 1, wherein the rate drive plate and the rate pickup plate of each of said object finger detectors are disposed generally laterally with respect to the expected direction of movement of the object finger.
- 3. (Currently amended) Rate-Finger sensing apparatus as defined in claim 1, wherein the rate-pickup plates of said sets of rate sensing plates-finger detectors are commonly connected.
- 4. (Currently amended) Rate-<u>Finger</u> sensing apparatus as defined in claim 1, wherein each of said <u>object-finger</u> detectors includes first and second <u>rate-pickup</u> plates disposed on opposite sides of the <u>rate-drive</u> plate to form a differential <u>rate-sensor</u>.
- 5. (Currently amended) Rate-Finger sensing apparatus as defined in claim 4, wherein the rate-drive plates of said object-finger detectors are commonly connected.
- 6. (Cancelled)
- 7. (Currently amended) Rate Finger sensing apparatus as defined in claim-61, wherein the rate-drive plates and the rate-pickup plates of said object finger detectors are curved to substantially match the curve of a typical finger end.

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8. (Currently amended) Rate-Finger sensing apparatus as defined in claim-61, further comprising a substrate, wherein said rate-drive plates and said rate-pickup plates comprise conductive traces on said substrate.

- 9. (Currently amended) Rate-Finger sensing apparatus as defined in claim-61, further comprising a flexible substrate, wherein said rate-drive plates and said rate-pickup plates comprise conductive traces on said flexible substrate.
- 10. (Currently amended) Rate-Finger sensing apparatus as defined in claim 8, wherein said substrate comprises a printed circuit board.
- 11. (Currently amended) Rate-<u>Finger</u> sensing apparatus as defined in claim 1, further comprising:

an excitation circuit for energizing the rate-drive plates of said object finger detectors with drive signals, and

a detection circuit for detecting the drive signals capacitively coupled from the rate-drive plate to the rate-pickup plate of each of said object-finger detectors to provide rate-sensor signals.

- 12. (Currently amended) Rate-Finger sensing apparatus as defined in claim 11, wherein said drive signals comprise signal bursts.
- 13. (Currently amended) Rate-Finger sensing apparatus as defined in claim 12, wherein said signal bursts comprise bursts of a clock signal.
- 14. (Currently amended) Rate-Finger sensing apparatus as defined in claim 12, wherein said detection circuit comprises a synchronous detector.
- 15. (Currently amended) Rate-Finger sensing apparatus as defined in claim 11, further comprising a processing circuit for determining a time delay between said rate-sensor signals

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from said object-finger detectors, wherein said time delay between said rate-sensor signals is representative of a speed of the-object-finger.

- 16. (Currently amended) Rate-Finger sensing apparatus as defined in claim 1, wherein the rate-drive plate and the rate-pickup plate of each of said object-finger detectors are substantially coplanar.
- 17. (New) Finger sensing apparatus as defined in claim 11, wherein the drive signals are applied to said finger detectors sequentially.
- 18. (New) A fingerprint sensing system comprising:

an image sensor comprising an array of sensors for sensing ridge peaks and ridge valleys of a fingerprint; and

a finger sensor comprising two or more finger detectors spaced apart along an expected direction of movement of a finger, each of said finger detectors including at least one drive plate and at least one pickup plate, wherein said finger detectors are dimensioned and spaced to sense a bulk of a finger rather than fingerprint features and wherein an end of a finger passing over each of said finger detectors produces a change in capacitance between respective drive plates and pickup plates.

- 19. (New) A fingerprint sensing system as defined in claim 18, wherein the image sensor and the finger sensor are fabricated as conductive traces on a substrate.
- 20. (New) A method for sensing a finger comprising sensing a bulk of the finger, rather than fingerprint features, with finger detectors spaced apart along an expected direction of movement of a finger.
- 21. (New) A method as defined in claim 20, wherein sensing a bulk of the finger comprises sensing an end of the finger passing over each of said finger detectors.

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22. (New) Finger sensing apparatus comprising:

two or more capacitive finger detectors spaced apart along an expected direction of movement of a finger, wherein said finger detectors are dimensioned and spaced to sense a bulk of the finger rather than fingerprint features.

- 23. (New) Finger sensing apparatus as defined in claim 22, wherein said capacitive finger sensors are fabricated as conductive traces on a substrate.
- 24. (New) Finger sensing apparatus as defined in claim 22, wherein each of said finger detectors includes at least one drive plate and at least one pickup plate.